

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: F16L 37/098

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1333217 A2 (CABLE MANAGEMENT PRODUCTS LIMITED), 6 August 2003 (06.08.2003), figure 1, abstract --	1-9
A	WO 9624003 A1 (ARTFORM INTERNATIONAL LIMITED), 8 August 1996 (08.08.1996), figures 1-5, abstract --	1-9
A	US 4035005 A (DEVENCENT ET AL), 12 July 1977 (12.07.1977), figures 1-5, claim 1 --	1-9
A	US 5048874 A (OHLSSON), 17 Sept 1991 (17.09.1991), figures 1-6, abstract --	1-9

<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.	<input checked="" type="checkbox"/> See patent family annex.
* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
20 May 2005Date of mailing of the international search report
2.4 -05- 2005Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86Authorized officer
Lena Nilsson / JA A
Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 2005/000034

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5988704 A (RYHMAN), 23 November 1999 (23.11.1999), figures 1-8, claim 1 --	1-9
A	US 6173998 B1 (BOCK), 16 January 2001 (16.01.2001), figures 1-3, abstract -- -----	1-9

INTERNATIONAL SEARCH REPORT
Information on patent family members

01/04/2005

International application No.

PCT/NO 2005/000034

EP	1333217	A2	06/08/2003	AU	2003200445 A	00/00/0000
				CA	2416103 A	01/08/2003
				CA	2444816 A	05/12/2002
				CN	1435586 A	13/08/2003
				EP	1389378 A	18/02/2004
				GB	0202305 D	00/00/0000
				GB	0300372 D	00/00/0000
				GB	2386403 A	17/09/2003
				JP	2003240175 A	27/08/2003
				NO	20030504 A	04/08/2003
				US	20030146626 A	07/08/2003
				US	20040152446 A	05/08/2004

WO	9624003	A1	08/08/1996	AU	3480995 A	29/03/1996
				AU	4717896 A	21/08/1996
				AU	4786596 A	21/08/1996
				AU	4786696 A	21/08/1996
				AU	4786896 A	21/08/1996
				GB	2313641 A	03/12/1997
				GB	2313890 A	10/12/1997
				GB	2313891 A	10/12/1997
				GB	2313905 A	10/12/1997
				GB	9502177 D	00/00/0000
				GB	9504310 D	00/00/0000
				GB	9716308 D	00/00/0000
				GB	9716311 D	00/00/0000
				GB	9716314 D	00/00/0000
				GB	9716315 D	00/00/0000
				WO	9624001 A	08/08/1996
				WO	9624002 A	08/08/1996
				WO	9624010 A	08/08/1996
				AU	687247 B	19/02/1998
				AU	3480895 A	29/03/1996
				CA	2199512 A,C	21/03/1996
				DE	69516155 D,T	16/11/2000
				EP	0781484 A,B	02/07/1997
				FI	970932 A	05/03/1997
				GB	9502176 D	00/00/0000
				JP	10505972 T	09/06/1998
				NZ	292597 A	26/06/1998
				US	5867498 A	02/02/1999
				GB	9509955 D	00/00/0000
				GB	9511416 D	00/00/0000
				GB	9519811 D	00/00/0000
				GB	9514539 D	00/00/0000

US	4035005	A	12/07/1977	DE	2720490 A	15/12/1977
				FR	2353007 A	23/12/1977
				GB	1521448 A	16/08/1978
				IT	1078198 B	08/05/1985

US	5048874	A	17/09/1991	SE	451342 B,C	28/09/1987
				SE	8505499 A	22/05/1987
				WO	8809459 A	01/12/1988

INTERNATIONAL SEARCH REPORT
Information on patent family members

01/04/2005

International application No.

PCT/NO 2005/000034

US	5988704	A	23/11/1999	AT	209311	T	15/12/2001
				AU	693987	B	09/07/1998
				AU	700761	B	14/01/1999
				AU	1404297	A	28/07/1997
				AU	4461596	A	31/07/1996
				BR	9612338	A	13/07/1999
				CN	1074108	B,C	31/10/2001
				CN	1207166	A	03/02/1999
				CZ	9802076	A	11/11/1998
				DE	870146	T	04/03/1999
				DE	69617267	D,T	23/05/2002
				DE	69620869	D,T	05/06/2003
				DK	803059	T	05/08/2002
				EP	0803059	A,B	29/10/1997
				SE	0803059	T3	
				EP	0870146	A,B	14/10/1998
				ES	2121715	T	16/12/1998
				HK	1005383	A	00/00/0000
				JP	10511882	T	17/11/1998
				JP	2000502781	T	07/03/2000
				PL	182154	B	30/11/2001
				PL	328496	A	01/02/1999
				PT	870146	T	31/05/2002
				RU	2158873	C	10/11/2000
				SE	506193	C	17/11/1997
				SE	9600008	A	03/07/1997
				US	5809104	A	15/09/1998
				WO	9724545	A	10/07/1997
				AU	2798497	A	26/11/1997
				CN	1146362	C	21/04/2004
				CN	1224999	A	04/08/1999
				EP	0959777	A	01/12/1999
				JP	2001511658	T	14/08/2001
				RU	2190359	C	10/10/2002
				SE	510577	C	07/06/1999
				SE	9601752	A	09/11/1997
				US	6488706	B	03/12/2002
				US	20030149463	A	07/08/2003
				WO	9741779	A	13/11/1997

US	6173998	B1	16/01/2001	DE	19831897	A,C	20/01/2000
				FR	2781275	A,B	21/01/2000
				GB	2339873	A,B	09/02/2000
				GB	9914581	D	00/00/0000
				IT	1310114	B	11/02/2002
				IT	T0990627	A	17/01/2000
				JP	3107085	B	06/11/2000
				JP	2000065273	A	03/03/2000
				KR	2000011771	A	25/02/2000